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| | | | | TC 170 |) | | | ucer _1_ 01 | |
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| (Rev. 5/92) Comparable to | U.S. Department of Commerce Patent and Trademark Office | | | Atty. Docket No. | | Serial No. | | | |
| Form PTO-1449 | | | | 82821 | 09/856,212 | | | | |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | | | | | | |
| | | | | Applicant NAKAMURA et al. | · · · · · · | | | | |
| | | | | Filing Date May 18, 2001 | Group 1765 | | | | |
| <u> </u> | | | U.S. PATEN | T DOCUMENTS | | | | | |
| *Examiner Initial | Document Number Date | | Name | Class | Filing Date Subclass If Appropriate | | • | | |
| MS | 4,437,922 | 03/20/1984 | Bischoff et al. | | | _ | , | | |
| MS | 4,944,834 | 07/31/1990 | Tada et al. | | | | | | |
| MS | | | Kotooka et a | 1. | | | | | |
| | | FC | OREIGN PAT | ENT DOCUMENTS | | | | | |
| | | | | | | | Trans | slation | |
| | Document Number | Date | Name of Patentee | | | Subclass | Yes | No | |
| | EP 0823497 | 02/11/1998 | MEMC Electronic Materials, Inc. | | _ | - | X | | |
| MS | EP 0866150 | 09/23/1998 | Wacker Siltronic Gesellschaft fur | | | | X | | |
| | EP 0785298 | 06/26/2002 | MEMC Electronic Materials, Inc. | | | | X | | |
| | JP 03-279290 | 12/10/1991 | Osaka Titanium Co., Ltd. | | _ | | X | | |
| | JP 05-194076 | 08/03/1993 | Komatsu Denshi Kinzoku KK | | | _ | X | | |
| | JP 07-133187 | 05/23/1995 | Komatsu Electron Metals Co., Ltd. | | | | X | | |
| | WO 98/45507 | 10/15/1998 | MEMC Electronic Materials, Inc. | | | | Υ | | |
| MS | WO 98/45508 | 10/15/1998 | MEMC Elec | tronic Materials, Inc. | <u> </u> | <u> </u> | Χ | <u> </u> | |
| · · · · · · · · · · · · · · · · · · · | ОТН | ER DOCUMENT | S (Including | Author, Title, Date, Pertinent Page | s, Etc.) | | | | |
| MS | NAKAMURA, KOZO et al.: "Formation process of grown-in defects in Czochralski grown silicon crystals" JOURNAL OF CRYSTAL GROWTH 180 (1997) 61-72 | | | | | | | | |
| MS | AMMON, WILFRIED VON et al.: "The dependence of bulk defects on the axial temperature gradient of silicon crystals during Czochralski growth" 2300 JOURNAL OF CRYSTAL GROWTH 151 (1995) June I, Nos. 3/4, Amersterdam, NL, Pages 273-277 | | | | | | | | |
| | | | | | | · | | | |
| lixamincr /Matthew Song/ | | | | Date Considered | 08/09 | /09/2006 | | | |
| *Examiner: considered. Includ | Initial if citation considered. | | | nformance with MPEP 609; draw | line through | citation if not in (| conformance | and not | |